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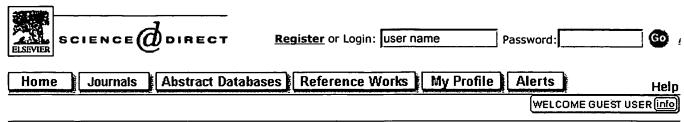
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Kyeong Lee<sup>a</sup>, Gnana Ravi<sup>a</sup>, Xiao-duo Ji<sup>a</sup>, Victor E. Marquez<sup>b</sup> and Kenneth A. Jacobson<sup>□</sup>, ⋈, a

Received 12 January 2001; accepted 20 March 2001. Available online 14 May 2001.

## **Abstract**

Novel methanocarba adenosine analogues, having the pseudo-ribose northern (N) conformation preferred at adenosine receptors (ARs), were synthesized and tested in binding assays. The 5'-uronamide modification preserved [ $N^6$ -(3-iodobenzyl)] or enhanced ( $N^6$ -methyl) affinity at  $A_3ARs$ , while the 2'-deoxy modification reduced affinity and efficacy in a functional assay.

## **Graphical Abstract**

Novel methanocarba adenosine analogues, having the pseudo-ribose northern (N) conformation preferred at adenosine receptors (ARs), were synthesized and testing in binding assays. The 5'-uronamide modification preserved [ $N^6$ -(3-iodobenzyl)] or enhanced ( $N^6$ -methyl) affinity at  $A_3$ ARs, while the 2'-deoxy modification reduced affinity and efficacy in a functional assay.

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